

# Dunn Structural Engineering, PLLC.

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828-775-5110

Erica Hodges

March 17, 2025

RE: Structural Evaluation of existing brick walls at  
314 Main St, Hendersonville, NC

Ms. Hodges,

In accordance with your request, I have completed my evaluation and analysis of the brick masonry walls at the above referenced property. The purpose of the evaluation was to determine if cutting openings in the north wall of the building adversely impacted the structural integrity of the building.

The building is a three level structure with brick masonry bearing walls and wood framed floors and roof. The walls bear directly on the soils and serve as their own footings, which was typical for construction during the early nineteenth century.

As part of the design for the ongoing renovations, new footings are planned just inside the brick walls with new steel columns, beams and wood framing supporting both floors and roof and taking load off of the brick walls. Also as part of the renovations, I designed lintels for several relatively small window openings on the upper level north wall. The new openings represent a very small percentage of the wall area and, therefore, do not adversely impact its strength or overall rigidity to provide both gravitational and lateral stability to the structure.

It has been a pleasure to provide my engineering services for this evaluation. Please contact me if you need clarification or further assistance.

Respectfully,

Patrick T. Dunn, P.E.

